

## M373 LED Digital Display

Time & Frequency Solutions offer a range of single and double-sided time displays that can be used for a wide range of public display applications where the presentation of reliable time information is required. These displays indicate hours and minutes on 7 segment High Intensity LED digits, which produce a highly readable display for both daylight and night-time viewing.

### Features

- Single or Double-sided display
- Day or night-time viewing
- Internal or external use
- Seven segment high-intensity LED digits
- 4 or 6 digit
- Robust construction offering vandal resistance
- GPS & LF External Time Receiver compatible
- Range of colours and finishes available



The display can be driven by a selection of master clocks; Time & Frequency Solutions offer a Master Clock, which is optimised for these displays. As an alternative, the Time Display can be operated in a master configuration by the addition of a precision external Time Receiver. With this arrangement, the display only requires an AC power source to operate and the display will automatically acquire time from the selected source.

**External Time Receivers** are available for a range of time broadcasts including

- MSF 60 kHz (UK)
- DCF77 77.5kHz (Germany)
- WWVB 60kHz (USA)
- HBG 75kHz (Switzerland).

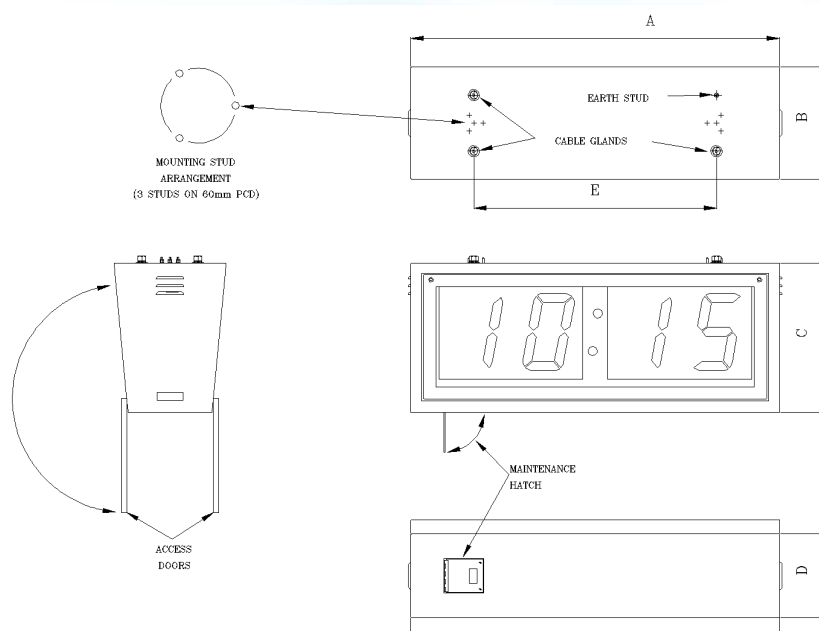
A time Receiver is also available for reception of the timing signals from the Global Positioning System (**GPS**).

Furthermore, it is possible to drive several displays from a master unit.

Each display is constructed for internal and external use with glass or clear lexan windows for good readability whilst offering significant vandal resistance. The design of these products has been extensively tested for all environmental conditions and has satisfied all the requirements.

A range of finishes and colours are provided. Further details are available from our Sales Office.

## Specifications



Display Size	A(mm)	B(mm)	C(mm)	D(mm)	E(mm)	Weight(kg)	Power(W)
Large	1215	360	480	270	780	46	150
Medium	746	270	318	230	480	20	100
Small	576	263	263	230	310	16	80

- Display Technology** : 7 Segment Light Emitting Diodes.  
**Display Digit Colour** : Red, Green or Yellow.  
**Power** : 115/230V AC  $\pm$  10% 48-62Hz.  
**Master Clock Interface** : RS422/20mA Current Loop.  
**Master Clock Data Protocol** : Self Configuring Protocols included for commonly available Master Clocks.  
**Optional Master Operation** : Optional external Time Receiver available for stand alone operation.  
**Slave Display Drive Capability:** When operating in master configuration, drive facility for 6 Slave Clocks via RS422 Interface.

### Environmental (Operation & Storage)

- Temperature** : -20°C to +60°C  
**Humidity** : 100% RH  
**Vibration** : 0.125mm(0-50Hz) 0.025mm(50-100Hz)  
**Shock** : Free Drop of 250mm  
**Water Ingress** : Approved to IP65 (IEC529)  
**EMC** : CE Compliant

As we are always seeking to improve our products, the information in this document only provides general indications of product capability, suitability and performance, none of which shall form any part of any contract.

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